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7	590 06/12/2006		EXAM	INER
Michael C Stuart Cohen Pontani Lieberman & Payane			RAMPURIA, SHARAD K	
551 Fifth Avenue			ART UNIT	PAPER NUMBER
Suite 1210 New York, NY 10176			2617	
			DATE MAILED: 06/12/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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- 4		Application No.	Applicant(s)		
	Office Action Commence	10/018,502	NARKILAHTI ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Sharad Rampuria	2617		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timustill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
2a)⊠	Responsive to communication(s) filed on 30 M. This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Dispositi	on of Claims				
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) 1-25 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers	vn from consideration.			
9) 又	The specification is objected to by the Examine	r.			
,	The drawing(s) filed on is/are: a) ☐ acce		Examiner.		
,	Applicant may not request that any objection to the				
11)[Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	,	•		
Priority u	ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
2) Notice 3) Information	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

DETAILED ACTION

I. The current office-action is in response to the amendments/remarks filed on 03/30/2006.

II. Accordingly, Claims 19-25 are newly added, consequently, Claims 1-25 are pending for further examination as follows:

Specification

III. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: "Method and System for Determining of Operating Modes of Users of a Telecommunication System."

Claim Rejections - 35 USC § 103

- IV. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the Claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various Claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each Claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

V. Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knight et al. [GB 2327175] in view of Amin [US 6167261].

Regarding Claim 1, Knight discloses a method for determining the behavior patterns of the users of a telecommunication system on the basis of information collected from the system (Pg.1; 26-35), characterized in that

At least one variable or a combination of variables of the telecommunication system is defied, (Pg.3; 16-24)

User-specific information corresponding to the defied at least one variable or a combination of variables is filtered from the information collected from the telecommunication system, (Pg.3; 15-Pg.5; 34) and

Knight fails to disclose the users of the telecommunication system are classified on the basis of the filtered user-specific information into various classes indicative of a user's behaviour patterns during use of the telecommunication system. However, Amin teaches in an analogous art, that the users of the telecommunication system are classified on the basis of the filtered user-specific information into various classes indicative of a user's behaviour patterns during use of the telecommunication system. (Col.4; 37-Col.6; 21). Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to include the users of the telecommunication system are classified on the basis of the filtered user-specific information into

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various classes indicative of a user's behaviour patterns during use of the telecommunication system in order to managing the resources of a wireless communication network to efficiently accommodate different types of wireless communication devices and associated services.

Regarding Claim 2, Knight discloses a method according to Claim 1, characterized in that said user-specific information is filtered from the telecommunication system in real time. (Pg.4; 15-21)

Regarding Claim 3, Knight disclose a method according to Claim 1, characterized in that after said filtering of information the filtered information is saved (3; fig.1) for later analysis. (Pg.3; 20-24)

Regarding Claim 4, Knight discloses a method according to Claim 1, characterized in that after the classification; statistical analysis is carried out on the classified information. (8; fig.1; Pg.5; 14-24 & Pg.4; 23-29)

Regarding Claim 5, Knight disclose a method according to Claim 4, characterized in that parameters essential for the quality of service of the telecommunication system are regulated on the basis of said statistical analysis (Pg.4; 31-Pg.5; 4).

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Regarding Claim 6, Knight disclose a method according to Claim 4, characterized in that on the basis of said statistical analysis, conclusions are drawn about the behaviour of a certain group of users in a telecommunication system. (Pg.5; 5-12)

Regarding Claim 7, Knight discloses all the particulars of the Claim except the classes of behaviour patterns used in the classification of users are defined in connection with the definition of variables. However, Amin teaches in an analogous art, that a method according to Claim 1, characterized in that the classes of behaviour patterns used in the classification of users are defined in connection with the definition of variables (Col.4; 37-Col.6; 21).

Regarding Claim 8, Knight discloses all the particulars of the Claim except the definitions of the classes of behaviour patterns used in the classification of users are changed. However, Amin teaches in an analogous art, that a method according to Claim 1, characterized in that the definitions of the classes of behaviour patterns used in the classification of users are changed (Col.4; 37-Col.6; 21).

Regarding Claim 9, Knight discloses all the particulars of the Claim except filtered unclassified information is classified into said new classes of behaviour patterns. However, Amin teaches in an analogous art, that a method according to Claim 8, characterized in that said filtered unclassified information is classified into said new classes of behaviour patterns (Col.4; 37-Col.6; 21).

Regarding Claim 10, Knight discloses all the particulars of the Claim except at least one of the variables is the type of contract of the user. However, Amin teaches in an analogous art, that a method according to Claim 1, characterized in that at least one of the variables is the type of contract of the user (Col.4; 37-Col.6; 21).

Regarding Claim 11, Knight discloses all the particulars of the Claim except the type of system service. However, Amin teaches in an analogous art, that a method according to Claim 1, characterized in that at least one of the variables is the type of system service. (Col.4; 37-Col.6; 21)

Regarding Claim 12, Knight disclose a method according to Claim 1, characterized in that said telecommunication system is a mobile communication system (1; fig.1; Pg.1; 7-10)

Regarding Claim 13, Knight discloses a system for determining the users' patterns of behaviour in a telecommunication system (Pg.1; 26-35, Abstract), characterized in that said system comprises;

Means for defining at least one variable or a combination of variables of the telecommunication system. (Pg.3; 16-24)

Filtering means for filtering said user-specific information corresponding to at least one variable or a combination of variables from the information received from the telecommunication system, (Pg.3; 15-Pg.5; 34) and

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Knight fails to disclose classifying means for classifying the users of the telecommunication system on the basis of said filtered user-specific information. However, Amin teaches in an analogous art, that classifying means for classifying the users of the telecommunication system on the basis of said filtered user-specific information into various classes indicative of a user's behaviour patterns during use of the telecommunication system (Col.4; 37-Col.6; 21, Abstract).

Regarding Claim 14, Knight discloses a system according to Claim 13, characterized in that the system is designed to process the information received from the telecommunication system in real time. (Pg.4; 15-21)

Regarding Claim 15, Knight discloses a system according to Claim 13, characterized in that the system has a memory (3; fig.1) for saving said filtered user-specific information. (Pg.3; 20-24)

Regarding Claim 16, Knight discloses all the particulars of the Claim except filtered unclassified information is classified into said new classes of behaviour patterns. However, Amin teaches in an analogous art, that a system according to Claim 13, characterized in that the system has analysis means for statistical analysis of the classification of the behaviour patterns of users received from the classifying means and/or for defining new classes of behaviour patterns (Col.4; 37-Col.6; 21).

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Regarding Claim 17, Knight disclose a system according to Claim 13, characterized in that the system has regulating means for regulating the values of parameters essential for the quality of service of the telecommunication system on the basis of the information received from the analysis means. (Pg.1; 26-35 & Pg.2; 9-18)

Regarding Claim 18, Knight disclose a system according to Claim 13, characterized in that said telecommunication system is a mobile communication system (1; fig.1; Pg.1; 7-10)

Regarding Claim 19, Knight disclose a telecommunication system for determining the behaviour patterns of users of the telecommunication system on the basis of information collected from the system, (Pg.1; 26-35, Abstract) comprising:

At least one base station; (e.g. 2; Fig.1, inherently included network system; Pg.3; 15-24)

At least one mobile services switching center (MSC) for establishing a connection to a mobile station and generating connection information; (e.g. 2; Fig.1, inherently included network system; Pg.3; 15-24)

At least one network management system for monitoring and managing operation of the telecommunication system; (e.g. 2; Fig.1, inherently included network system; Pg.3; 15-24)

A customer register for receiving the connection information from the at least one MSC; (e.g. 2; Fig.1, inherently included network system; Pg.3; 15-24)

A statistical unit for receiving statistical information from the at least one NMS; (e.g. 2; Fig.1, inherently included network system; Pg.3; 15-24)

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A filter configured to filter said user-specific information corresponding to at least one variable or a combination of variables from the information received from the telecommunication system, said at least one variable or a combination of variables being defined in the telecommunication system; (Pg.3; 15-Pg.5; 34) and

Knight fails to disclose a classifier configured to classify the users of the telecommunication system on the basis of said filtered user-specific information into various classes indicative of a user's behaviour patterns during use of the telecommunication system. However, Amin teaches in an analogous art, that a classifier configured to classify the users of the telecommunication system on the basis of said filtered user-specific information into various classes indicative of a user's behaviour patterns during use of the telecommunication system (Col.4; 37-Col.6; 21, Abstract).

Regarding Claim 20, Knight discloses a system according to Claim 19, characterized in that the system is designed to process the information received from the telecommunication system in real time. (Pg.4; 15-21)

Regarding Claim 21, Knight discloses a system according to Claim 19, characterized in that the system has a memory (3; fig.1) for saving said filtered user-specific information. (Pg.3; 20-24)

Regarding Claim 22, Knight discloses all the particulars of the Claim except filtered unclassified information is classified into said new classes of behaviour patterns. However, Amin

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teaches in an analogous art, that a system according to Claim 19, characterized in that the system has analysis means for statistical analysis of the classification of the behaviour patterns of users received from the classifying means and/or for defining new classes of behaviour patterns (Col.4; 37-Col.6; 21).

Regarding Claim 23, Knight disclose a system according to Claim 19, characterized in that the system has regulating means for regulating the values of parameters essential for the quality of service of the telecommunication system on the basis of the information received from the analysis means. (Pg.1; 26-35 & Pg.2; 9-18)

Regarding Claim 24, Knight disclose a system according to Claim 19, characterized in that said telecommunication system is a mobile communication system (1; fig.1; Pg.1; 7-10)

Claim 25 is the computer readable medium claim corresponding to system claim 13 respectively, and rejected under the same rational set forth in connection with the rejection of claim 13 respectively, above.

Response to Amendment/Remarks

VI. Applicant's arguments with respect to claims 1-25 has been fully considered but is moot in view of the new ground(s) of rejection.

Conclusion

VII. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharad Rampuria whose telephone number is (571) 272-7870. The examiner can normally be reached on M-F. (8:30-5).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Sharad Rampuria Examiner Art Unit 2617

> GEORGE ENG | SUPERVISORY PATENT EXAMINER